



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

✓ 5-C/

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

1M22/1206

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APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
09/196,345	11/19/98	022	PRINCE, F	1724 12/06/99
First Named Applicant	KOZAK. 35 USC 154(b) term ext. = 0 Days.			

TITLE OF INVENTION LIQUID PURIFICATION SYSTEM AND METHOD FOR DECONTAMINATING MICROBE INFESTED LIQUID

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
0 MR2287-10	210-774.000	F21	UTILITY	YES	\$605.00	03/06/00

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

Notice of Allowability

Application No.

09/196,345

Applicant(s)

Kozak, III

Examiner

Fred Prince

Group Art Unit

1724

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to November 19, 1998

☒ The allowed claim(s) is/are 1-22

☒ The drawings filed on Nov 19, 1998 are acceptable.

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE **THREE MONTHS** FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☐ Applicant MUST submit NEW FORMAL DRAWINGS

☐ because the originally filed drawings were declared by applicant to be informal.

☐ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. _____

☐ including changes required by the proposed drawing correction filed on _____, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 2

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☐ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: In the examiner's opinion, the prior art does not teach or fairly suggest a system for decontaminating liquid with the recited positioning and operational elements including a primary tank having a first liquid immiscible with a second liquid, wherein the first liquid is located in the upper section of the tank and the second liquid is located in the lower section of the tank, means for heating the first liquid, the second liquid is heated by direct contact with the first liquid for destroying microbes contained in the second liquid to produce a treated liquid, and conduit means located within the primary tank in thermal contact with the heated first liquid for further heating the treated liquid to provide a substantially purified liquid, nor does the prior art teach or fairly suggest a method for decontaminating a liquid including providing a first liquid in a tank, wherein the first liquid is immiscible with the second liquid containing microbes, heating the first liquid, passing the second liquid through the first liquid for transferring heat from the first liquid to the second liquid to destroy microbes in the second liquid to produce a treated liquid, further heating the treated liquid within the tank after the passing step to produce a purified liquid.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Griffith (839,926) discloses a method of using a medium to kill microbes in a liquid.
- b. Thompson et al. (3,151,677) disclose a method of heating water with an immiscible fluid.
- c. Oakes (4,452,671) discloses a system for killing microbes in an oil/water system.
- d. Clum et al. (5,294,351) disclose a system for using hot oil to kill microorganisms.
- e. Davis (5,315,921) discloses a method of killing microorganisms by passing hot oil through a material.
- f. Morris (5,891,330) discloses a method of killing microorganisms by heating water with hot oil.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred Prince whose telephone number is (703) 306-9169. The examiner can normally be reached on Monday through Friday from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. David Simmons, can be reached on (703) 308-1972. The fax phone number for this Group is (703) 305-7718.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.



David Simmons
Supervisory Patent Examiner
Art Unit 1724

FP
Fred Prince
December 3, 1999